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COLORADO DEPARTMENT OF HEALTH
Radiation Control Division

Minutes of Exchange of Information Meeting
Colorado Department of Health
July 31, 1990 1:30 p.m.

Attendees:

Richard Gamewell	Colorado Department of Health/RCD
Hallie Mahan	City of Broomfield
Dave Costain	Rocky Flats Plant
Nancy M. Daugherty	EG&G
Marty Kusel	EG&G
Judy Bruch	Colorado Department of Health/RFPD
Jeb Love	Colorado Department of Health/RFPD
Richard Fox	Colorado Department of Health/RFPD
Arch Crouse	Colorado Department of Health/APCD
Steve Ramer	City of Westminster
Al Hazle	Colorado Department of Health/RFPD
Jill Paukert	EG&G Rocky Flats/Community Relations
Mark E. Van Der Puy	U.S. DOE/Environmental Monitoring Branch
John Rampe	U.S. DOE/Rocky Flats Area Office
Paula Eloffson-Gardine	Concerned Health Technicians for a Cleaner Colorado
Callie Videtich	City of Arvada
George H. Setlock	EG&G

Nancy Daugherty presented the quarterly update to the list of radioactive materials used at the Rocky Flats Plant. There have been no changes since the last quarterly update (April 24, 1990).

Hallie Mahan presented the City of Broomfield Radiometric Monitoring Report for June. All data were consistent with measurements that have been made in the past. There has been no flow in Walnut Creek since May 30th. The report includes analysis of water from the Walnut Creek diversion ditch around Great Western Reservoir (the Broomfield Diversion Ditch). The water in the diversion ditch was discharged from C-2 Pond.

Steve Ramer presented the City of Westminster Radiation Data Monthly Report for the month of June. All routine monitoring data were consistent with measurements that have been made in the past.

Nancy Daugherty presented the June Rocky Flats Plant Environmental Monitoring Report. The report now includes an Executive Summary, which highlights exceptions and other especially noteworthy information that is contained in the report. The Executive Summary is the product of the writer's judgment, and may not include all of the items that readers may consider noteworthy. Data from the plant operator's (EG&G) surveillance program that were presented in the report were within the ranges that have been historically measured for their respective parameters and locations, with the following exceptions:

- 1) There was a release of 0.2 microcuries of americium-241 from Building 371 during the month of April. This is the largest monthly release of Am-241 from the plant in 1990. The Am-241 concentration for this sampling period was $.001 \pm .0002 \text{ pCi/M}^3$.

ADMIN RECORD

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- 2) The 30-day average Biochemical Oxygen Demand (BOD) in Pond B-3 exceeded the limit allowed by the NPDES permit by 17%. The average BOD for June was 11.7 mg/L, against a permitted limit of 10 mg/L. The highest daily measurement for Pond B-3 during June was 22.1 mg/L; this value was within the permitted limit for a daily measurement of 25 mg/L. The variation in BOD was most likely associated with a seasonal algal bloom, and not with any upset conditions that might result from operation of the Rocky Flats sewage treatment plant.
- 3) Plutonium in air concentrations for the S-01 ambient air sampling location were the highest of any on-site locations for the month of April. S-01 is near the solar pond area, an area of known radioactivity contamination that has been identified as a remediation site for the plant. An additional ambient air sampler, S-8B, was installed in the vicinity of the solar ponds to provide further information for this location.

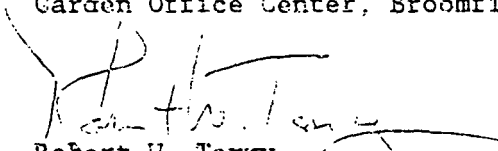
There was some discussion about the sensitivity and precision of measurements of plutonium and americium concentrations in water, particularly in water that was discharged from C-2 Pond to the Broomfield Diversion Ditch. Al Hazle (CDH/RFPD) requested further information on the reasons for variation in the size of the 95% confidence intervals that are reported for surface water samples collected at the Rocky Flats plant.


Richard Gamewell presented the Colorado Department of Health Monthly Environmental Surveillance Report on the Rocky Flats Plant for the month of June. All results were consistent with those that have been reported in the past, except for the presence of chloroform and bromodichloromethane in the raw water intake to the Northglenn water plant. This issue did not appear to be related to activities at the Rocky Flats plant.

Nancy Daugherty reported that an additional ambient air sampling device was installed in the vicinity of the Solar Ponds and designated S-8B. No significant changes were reported for any of the other monitoring programs.

There were no special agenda items.

The next monthly Environmental Information Exchange Meeting will be held at 1:30 p.m., Tuesday, August 28, 1990, at the Broomfield City Council Chambers, #6 Garden Office Center, Broomfield, Colorado.


Robert W. Terry
Senior Health Physicist
Colorado Department of Health


Richard Gamewell
Principal Health Physicist
Colorado Department of Health